## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

## LISTING OF CLAIMS:

## 1-21 (canceled)

- 22.(new) Device for sanding a wooden barrel, consisting of a robot comprising:
  - means for loading said barrel,
- means for gripping and rotating said barrel around the axis thereof,
- means for removing and replacing the two bilge hoops of said barrel.
  - means for sanding said barrel, and
  - means for removing said barrel.
- 23.(new) Device according to Claim 22, wherein said gripping and rotating means comprise two mobile headstocks moving symmetrically and each including extendable clamping jaws.
- 24. (new) Device according to Claim 22, wherein said hoop removing and replacing means comprise a plurality of arms mounted to be mobile between an open position in which they are moved away from said barrel and a closed position in which they are able to grip one of said bilge hoops and to slide along the axis of said barrel.
- 25. (new) Device according to Claim 24, wherein said arms are mounted on a carriage adapted to slide between a first position in which said arms face one of said bilge hoops and a second position in which said arms face the other of said bilge

hoops.

- 26.(new) Device according to Claim 25, wherein said arms comprise clamping shoes conformed to be applied to either of said bilge hoops interchangeably.
- 27.(new) Device according to Claim 24, comprising means for preventing said arms from gripping each of said bilge hoops too tightly.
- 28.(new) Device according to Claim 24, comprising four arms.
- 29. (new) Device according to Claim 22, wherein said sanding means comprise a sanding head including a belt sander.
- 30.(new) Device according to Claim 29, wherein said sanding head is mounted so that it is able to slide along the axis of said barrel.
- 31.(new) Device according to Claim 30, comprising means for varying the distance of said sanding head from the axis of said barrel.
- 32.(new) Device according to Claim 31, wherein said distance varying means comprise a deformable parallelogram.
- 33. (new) Device according to Claim 29, comprising means for varying the inclination of said sanding head to the axis of said barrel.
- 34.(new) Device according to Claim 29, comprising means for adjusting the pressure exerted on said barrel by said sanding head.

- 35.(new) Device according to Claim 22, comprising a safety enclosure with an entry airlock and an exit airlock for said barrel.
- 36.(new) Device according to Claim 35, comprising means for sequencing the passage of said barrel into said entry airlock.
- 37. (new) Device according to Claim 22, comprising means for identifying the position of the bunghole of said barrel.
- 38.(new) Device according to Claim 22, comprising means for immobilizing and lifting said barrel.
- 39.(new) Method applied to a device according to Claim 22, comprising the steps of:
  - -a) placing said barrel between said gripping and rotating means,
  - -b) gripping said barrel with said gripping and rotating means,
  - -c) removing one of said bilge hoops on one half of said barrel with said hoop removing and replacing means,
  - -d) rotating said barrel with said gripping and rotating means,
  - -e) sanding said half barrel with said sanding means,
  - -f) stopping the rotation of said barrel,
  - -g) replacing said bilge hoop with said hoop removing and replacing means,
  - -h) repeating steps c) to g) for the other bilge hoop and the other half of said barrel, and
  - -i) releasing said barrel from said gripping and rotating means.

- 40. (new) Method according to Claim 39 applied, wherein, for executing said step e), a sanding head is moved in the direction of the axis of said barrel.
- 41. (new) Method according to Claim 39, wherein, between said steps b) and c), the position of a bunghole of the barrel is identified in order to position said barrel so that said hoop removing and replacing means do not interfere with riveted areas of said bilge hoops.
- 42.(new) Method according to Claim 22, wherein, to execute said step c), said barrel is rotated so that it occupies a plurality of successive positions and, in each of said positions, removal forces are exerted on said bilge hoop with said hoop removing and replacing means.